

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P534542

Luminaire Tested: **S921DIP-W340-XX4XX-UDD-W**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510-R2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S921DIP-W340-XX4XX-UDD-W  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE CURVILINEAR HOUSING  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

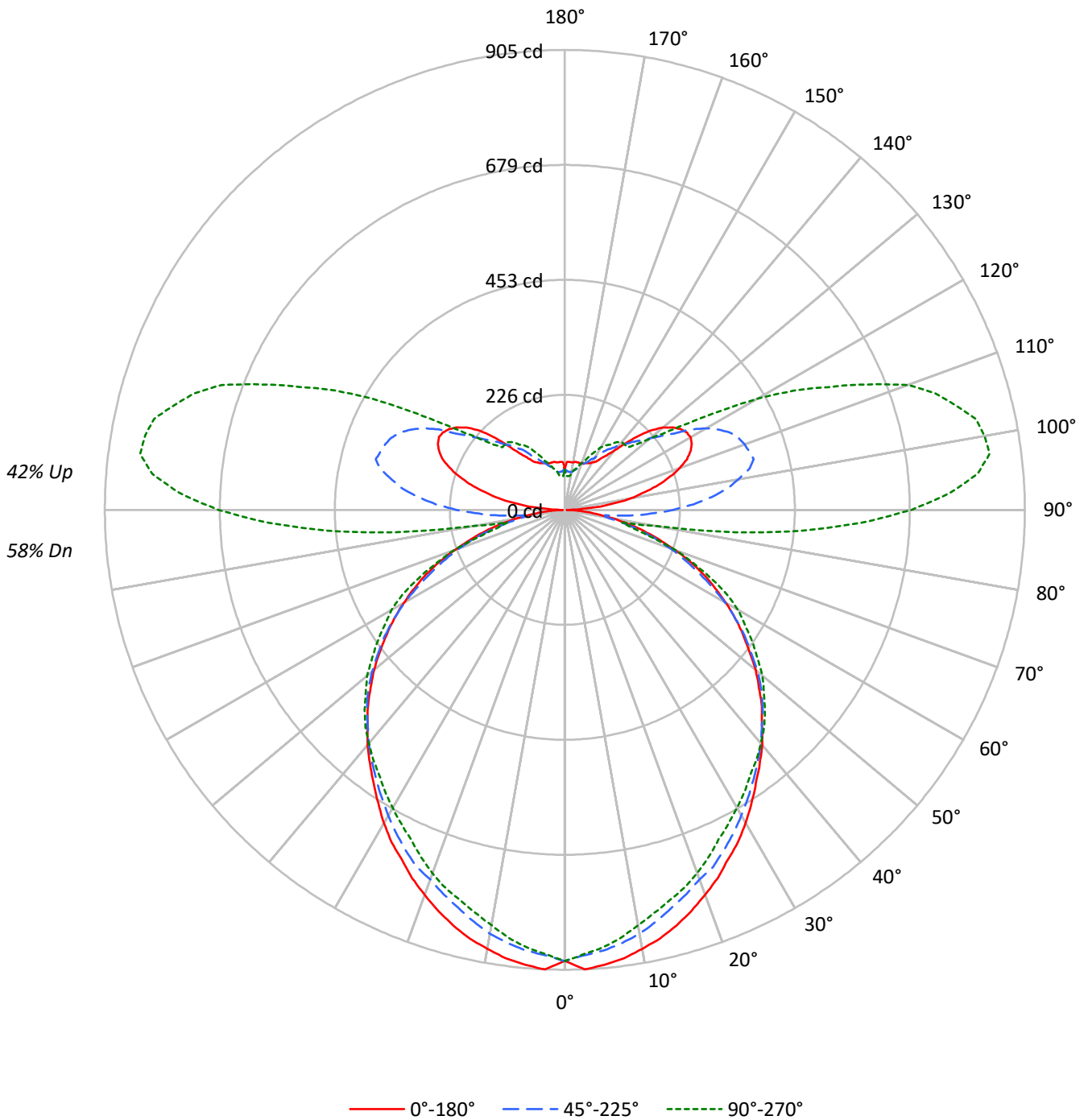
Lumens per Lamp: N/A  
Luminaire Lumens: 4370.3 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

Input Watts (W): 38.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	52	51	46
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42	38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	24
6	63	50	42	36	58	47	39	34	41	35	30	35	31	27	30	26	23	21
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	28	24	21	18
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	25	21	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	23	20	17	15
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3527	3527	3527
5°	3559	3361	3314
10°	3490	3204	3098
15°	3412	3028	2915
20°	3315	2877	2760
25°	3211	2757	2588
30°	3125	2616	2460
35°	3017	2483	2340
40°	2942	2364	2251
45°	2859	2246	2149
50°	2774	2110	2033
55°	2669	1946	1886
60°	2561	1747	1748
65°	2428	1498	1503
70°	2204	1252	1198
75°	1921	947	783
80°	1506	596	1154
85°	833	1109	3460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	1.9
10°-20°	230.8	5.3
20°-30°	341.2	7.8
30°-40°	406.9	9.3
40°-50°	426.6	9.8
50°-60°	390.3	8.9
60°-70°	297.7	6.8
70°-80°	162.7	3.7
80°-90°	213.0	4.9
90°-100°	401.4	9.2
100°-110°	458.6	10.5
110°-120°	384.6	8.8
120°-130°	252.9	5.8
130°-140°	148.0	3.4
140°-150°	89.9	2.1
150°-160°	50.1	1.1
160°-170°	24.9	0.6
170°-180°	7.6	0.2
0°-30°	655.1	15.0
0°-40°	1062.0	24.3
0°-60°	1878.9	43.0
0°-90°	2552.3	58.4
90°-120°	1244.6	28.5
90°-150°	1735.4	39.7
90°-180°	1818.0	41.6
0°-180°	4370.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	899	892	871	868	864	85
15°	847	838	810	800	795	239
25°	759	757	740	727	716	350
35°	656	662	647	641	636	411
45°	548	555	550	557	557	422
55°	428	434	432	443	449	383
65°	301	299	288	312	316	297
75°	161	153	148	142	138	170
85°	34	45	129	348	471	41
90°	4	77	213	525	682	7
95°	64	133	290	634	815	67
105°	191	226	385	654	795	200
115°	273	280	359	497	572	267
125°	277	277	262	282	297	246
135°	206	194	189	178	174	160
145°	122	127	144	157	157	79
155°	101	99	103	114	118	47
165°	97	90	82	84	84	27
175°	95	90	75	69	67	9
180°	80	80	80	80	80	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	887.9	887.9	887.9	887.9	887.9
2.5°	905.1	898.6	877.1	877.1	875.0
5°	898.6	892.2	870.7	868.5	864.2
7.5°	890.0	881.4	859.9	855.6	849.2
10°	877.1	870.7	847.0	838.4	829.8
12.5°	864.2	855.6	829.8	821.2	812.6
15°	847.0	838.4	810.5	799.7	795.4
17.5°	827.7	819.1	793.3	789.0	780.4
20°	806.2	797.6	773.9	769.6	761.0
22.5°	784.7	778.2	761.0	748.1	739.5
25°	758.9	756.7	739.5	726.7	715.9
27.5°	737.4	733.1	718.1	705.2	696.6
30°	711.6	709.5	694.4	683.7	677.2
32.5°	683.7	685.8	670.8	664.3	657.9
35°	655.7	662.2	647.1	640.7	636.4
37.5°	629.9	638.5	623.5	621.3	619.2
40°	604.1	610.6	599.8	599.8	599.8
42.5°	574.0	582.6	574.0	580.5	580.5
45°	548.2	554.7	550.4	556.8	556.8
47.5°	518.1	524.6	524.6	531.0	531.0
50°	490.2	496.6	494.5	503.1	507.4
52.5°	457.9	464.4	462.2	475.1	477.3
55°	427.8	434.3	432.1	442.9	449.3
57.5°	397.7	404.2	397.7	410.6	419.2
60°	365.5	371.9	363.3	376.2	393.4
62.5°	333.2	335.4	324.6	346.1	359.0
65°	301.0	298.8	288.1	311.7	316.0
67.5°	266.6	262.3	253.7	270.9	273.0
70°	230.0	225.7	219.3	227.9	232.2
72.5°	193.5	189.2	184.9	187.0	178.4
75°	161.2	152.6	148.3	141.9	137.6
77.5°	126.8	120.4	111.8	109.6	116.1
80°	94.6	94.6	81.7	113.9	180.6
82.5°	62.3	66.6	79.5	247.2	339.7
85°	34.4	45.1	129.0	348.3	470.8
87.5°	15.0	53.7	169.8	436.4	582.6
90°	4.3	77.4	212.8	524.6	681.5
92.5°	30.1	107.5	253.7	589.1	758.9
95°	64.5	133.3	290.2	634.2	814.8
97.5°	98.9	165.5	322.5	664.3	842.7
100°	133.3	187.0	346.1	670.8	838.4
102.5°	161.2	208.5	371.9	666.5	827.7
105°	191.3	225.7	384.8	653.6	795.4
107.5°	217.1	240.8	380.5	634.2	763.2
110°	240.8	249.4	376.2	589.1	718.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.1	264.4	369.8	541.8	645.0
115°	273.0	279.5	359.0	496.6	571.9
117.5°	281.6	288.1	341.8	447.2	507.4
120°	285.9	290.2	320.3	399.9	436.4
122.5°	283.8	288.1	294.5	341.8	361.2
125°	277.3	277.3	262.3	281.6	296.7
127.5°	266.6	264.4	238.6	238.6	249.4
130°	251.5	242.9	219.3	206.4	217.1
132.5°	232.2	217.1	202.1	182.7	189.2
135°	206.4	193.5	189.2	178.4	174.1
137.5°	178.4	172.0	174.1	178.4	174.1
140°	152.6	154.8	165.5	174.1	174.1
142.5°	135.4	141.9	152.6	163.4	167.7
145°	122.5	126.8	144.0	156.9	156.9
147.5°	111.8	116.1	131.1	146.2	150.5
150°	107.5	111.8	118.2	135.4	141.9
152.5°	103.2	103.2	111.8	126.8	129.0
155°	101.0	98.9	103.2	113.9	118.2
157.5°	98.9	96.7	98.9	103.2	105.3
160°	96.7	92.4	92.4	96.7	98.9
162.5°	96.7	90.3	88.1	92.4	90.3
165°	96.7	90.3	81.7	83.8	83.8
167.5°	96.7	88.1	79.5	77.4	79.5
170°	94.6	88.1	75.2	75.2	70.9
172.5°	94.6	88.1	75.2	70.9	66.6
175°	94.6	90.3	75.2	68.8	66.6
177.5°	94.6	90.3	77.4	70.9	66.6
180°	79.5	79.5	79.5	79.5	79.5

(END OF REPORT)